



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of:	LUBENOW et al.
Serial No.:	10/788,909
Filed:	February 27, 2004
Entitled:	Methods for Separating Particulate Substrates from Solution While Minimizing Particle Loss

Art Unit:

Examiner:

Attorney Docket No.: QGN-004.0 US-2

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**TRANSMITTAL LETTER**

Sir:

Transmitted herewith are: ☒ an Information Disclosure Statement (3 pages), with a modified Form 1449 (2 pages) and copies of cited references; ☒ a return receipt postcard, to be filed in the above-identified patent application.

**FEE FOR ADDITIONAL CLAIMS**

☒ A fee for additional claims is not required.

☐ A fee for additional claims is required. The additional fee has been calculated as shown below:

	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	NUMBER OF EXCESS CLAIMS	RATE	FEES DUE
TOTAL CLAIMS	--	--	<u>0</u>	<u>\$50</u>	= 0.00
INDEPENDENT	--	--	<u>0</u>	<u>\$200</u>	= 0.00
FIRST INTRODUCTION OF MULT. DEPENDENT CLAIM				\$360	= 0.00
<b>TOTAL FEES DUE</b>					<b>= 00.00</b>

**PAYMENT OF ADDITIONAL FEES**

☐ A check in the amount of \$ \_ \_ in payment of the fee for additional claims is transmitted herewith.

☐ Please charge \$ \_ \_ \_ to Deposit Account No. 50-0268 in payment of the fee for additional claims.

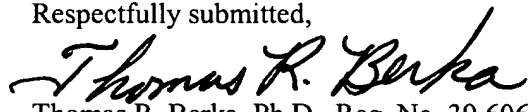
A duplicate copy of this transmittal letter is transmitted herewith.

- ☐ A check including the amount of \$\_\_\_ in payment of the fee for the submission of an Information Disclosure Statement is transmitted herewith.
- ☒ The Commissioner is hereby authorized to charge payment of any additional fees required under 37 CFR 1.16 or 1.17 in connection with the paper(s) transmitted herewith, or to credit any overpayment of same, to Deposit Account No. 50-0268. A duplicate copy of this transmittal letter is transmitted herewith.

**PETITION FOR EXTENSION OF TIME**

- ☐ Extension is requested under 37 CFR 1.136(a), and the following extension fee is applicable for the Response filed herewith: ☐ \$120.00 for response within first month pursuant to 37 CFR 1.17(a)(1); ☐ \$450.00 for response within second month pursuant to 37 CFR 1.17(a)(2); ☐ \$1,020.00 for response within third month pursuant to 37 CFR 1.17(a)(3); ☐ \$1590.00 for response within fourth month pursuant to 37 CFR 1.17(a)(4); ☐ \$2160.00 for response within fifth month pursuant to 37 CFR 1.17(a)(5).
- ☐ A check including the amount of ☐ \$120.00 ☐ \$450.00 ☐ \$1,020.00 ☐ \$1590.00 ☐ \$2160.00 in payment of the extension fee is transmitted herewith.
- ☒ The Commissioner is hereby authorized to charge payment of any additional fees required in connection with the paper(s) transmitted herewith, or to credit any overpayment of same, to Deposit Account No. 50-0268. A duplicate of this transmittal letter is submitted herewith.

Respectfully submitted,

  
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**CERTIFICATE OF MAILING**

I hereby certify that this correspondence and accompanying documents are being deposited with the U.S. Postal Service as First Class mail, postage prepaid, in an envelope addressed to the Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date indicated below.

February 15, 2005

Date



Nasim G. Memon

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Application of: Lubenow et al.

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Commissioner for Patents  
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**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 C.F.R. §§ 1.56, 1.97 AND 1.98**

Dear Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicants submit this Information Disclosure Statement pursuant to 37 C.F.R. §§ 1.97 and 1.98 in the above-identified application for consideration by the Patent Office. A listing of the cited documents is also enclosed (modified form PTO-1449), as well as, for the Examiner's convenience, copies of the documents in the list.

Pursuant to 37 C.F.R. § 1.97(b)(3), because this Statement is submitted before the first Office Action on the merits, no fee is required. However, in case any fee may become due to comply with this requirement or to keep this application in good standing or if any refund is due Applicants in this case, Applicants authorize the Commissioner to charge or deposit the appropriate amount to Deposit Account No. 05-0268.

**US Patents**

US Patent No. 4,009,213, issued February 22, 1977; Stein et al.

US Patent No. 4,877,830, issued October 31, 1989; Döbeli et al. ("Döbeli I")

US Patent No. 5,047,513, issued September 10, 1991; Döbeli et al. ("Döbeli II")

US Patent No. 5,128,103, issued July 7, 1992; Wang et al.  
US Patent No. 5,147,529, issued September 15, 1992; Lee et al.  
US Patent No. 5,284,933, issued February 8, 1994; Döbeli et al. ("Döbeli III")  
US Patent No. 5,385,959, issued January 31, 1995; Tsaur et al.  
US Patent No. 5,439,829, issued August 8, 1995; Anderson et al.  
US Patent No. 5,458,785, issued October 17, 1995; Howe et al.  
US Patent No. 5,466,577, issued November 14, 1995; Weisburg  
US Patent No. 5,646,016, issued July 8, 1997; McCoy et al.  
US Patent No. 5,798,442, issued August 25, 1998; Gallant et al.  
US Patent No. 5,942,391, issued August 24, 1999; Zhang et al.  
US Patent No. 6,180,548, issued January 30, 2001; Taoda et al.  
US Patent No. 6,348,318, issued February 19, 2002; Valkirs

#### **Foreign Patent Applications**

EPO Publication No. EP 0 691 541, published January 10, 1996  
PCT Publication No. WO 96/31781, published October 10, 1996  
PCT Publication No. WO 97/31105, published August 28, 1997  
PCT Publication No. WO 97/44671, published November 27, 1997

#### **Other Publications**

Helenius et al., "Properties of Detergents" *In Methods in Enzymology*, Vol. 56, pp. 734-739 (Academic Press, Inc., New York, 1979).

Hochuli et al., *Bio/Technology*, 6: 1321-1325 (1988).

Lönnerdal et al., *J. Appl. Biochem.*, 4: 203-208 (1982).

Neugebauer, Judith M., "Detergents: An Overview", *In Methods in Enzymology*, Vol. 182, pp. 239-253 (Academic Press, Inc., New York, 1990).

Ni-NTA Magnetic Agarose Beads Handbook, (QIAGEN, Hilden, Germany, printed June 1998, distributed August 1998).

Porath et al., *Nature*, 258: 598-599 (1975).

Sulkowski, Eugene, *Trends in Biotechnology*, 3: 1-7 (1985).

Applicants do not intend to represent that any of the documents submitted herein is material prior art to this invention or that the list represents an exhaustive search of documents related to this invention.

Applicants respectfully request that the documents submitted herein be considered and made of record in this application.

Respectfully submitted,



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CERTIFICATE OF MAILING

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Nasim G. Memon

Modified FORM PTO-1449

ATTY. DOCKET NO.  
QGN-004.0 US-2SERIAL NO.  
10/788,909LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

## APPLICANT

Lubenow et al.

(Use several sheets if necessary)

FILING DATE  
February 27, 2004

GROUP

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	US 4,009,213	2/22/77	Stein et al.			
	AB	US 4,877,830	10/31/89	Döbeli et al.			
	AC	US 5,047,513	9/10/91	Döbeli et al.			
	AD	US 5,128,103	7/7/92	Wang et al.			
	AE	US 5,147,529	9/15/92	Lee et al.			
	AF	US 5,284,933	2/8/94	Döbeli et al.			
	AG	US 5,385,959	1/31/95	Taur et al.			
	AH	US 5,439,829	8/8/95	Anderson et al.			
	AI	US 5,458,785	10/17/95	Howe et al.			
	AJ	US 5,466,577	11/14/95	Weisburg			
	AK	US 5,646,016	7/8/97	McCoy et al.			
	AL	US 5,798,442	8/25/98	Gallant et al.			
	AM	US 5,942,391	8/24/99	Zhang et al.			
	AN	US 6,180,548	1/30/01	Taoda et al.			
	AO	US 6,348,318	2/19/02	Valkirs			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	TRANSLATION YES	NO
	AP	EP 0 691 541	1/10/96					
	AQ	WO 96/31781	10/10/96					
	AR	WO 97/31105	8/28/97					
	AS	WO 97/44671	11/27/97					

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AT	Helenius et al., "Properties of Detergents," <i>In Methods in Enzymology</i> , Vol. 56, pp. 734-739 (Academic Press, Inc., New York, 1979)
AU	Hochuli et al., <i>Bio/Technology</i> , 6: 1321-1325 (1988)
AV	Lönnerdal et al., <i>J. Appl. Biochem.</i> , 4: 203-208 (1982)
AW	Neugebauer, J.M., "Detergents: An Overview," <i>In Methods in Enzymology</i> , Vol. 182, pp. 239-253 (Academic Press, Inc., New York, 1990)

AX	Ni-NTA Magnetic Agarose Beads Handbook, (QIAGEN GmbH, Hilden, Germany, printed June 1998, distributed August 1998)
AY	Porath et al., <i>Nature</i> , 258: 598-599 (1975)
AZ	Sulkowski, E., <i>Trends in Biotechnology</i> , 3: 1-7 (1985)

EXAMINER

DATE CONSIDERED

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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